

REMARKS

In the Office Action, the Examiner recognized that certain claims of the application, particularly beginning at originally numbered claim 4 were mis-numbered. As requested by the Examiner, the numbering has been changed. These changes, while noted in the attached amendments, are not annotated as amendments to the claims. However, should such annotation and notation of the claims as "amended" should be required, Applicant kindly requests the Examiner to treat the present Response as a *bona fide* attempt to respond and treat the Response accordingly. Throughout the present remarks, the claims are referred to by their NEW AND CORRECTED enumeration.

In the Office Action, claims, as originally numbered, 20-26 were allowed, and claims 4, 5, 6, 9 and 16 and 17-19 were indicated as reciting allowable subject matter. Again, these claims will be referred to below by their new numbers. By the present Response, claims 1 and newly numbered claims 4, 5, 6, 12, 15, 16, 17 and 21 are amended, and new claim 24 is added. Upon entry of the amendments, and according to the new claim numbers, claims 1-2, 4-9, 11, 12 and 15-24 will remain pending in the present patent application. Reconsideration and allowance of all pending claims are requested.

Objection to the Specification

The Examiner objected to the Specification due to certain terminology used in the Abstract. The Abstract has been corrected by the present Response. Consideration and approval of the revised Abstract are requested.

Rejections under 35 U.S.C. §112

Various rejections were formulated by the Examiner, along with claim objections relating to an incomplete claim 13 and mis-numbering in the claims. The claims have been amended and altered as summarized above to obviate these rejections and objections. Reconsideration of the claims are requested.

Rejections under 35 U.S.C. §102

Claim 1 has been amended to incorporate subject matter originally recited in claim 3 (original claim 4), indicated as allowable by the Examiner. Other claims have been corrected to change their dependency based upon the cancellation of claim 3 (original claim 4). Claim 1 and its dependent claims are therefore in condition for allowance.

Claim 12 (original claim 15) has been amended to incorporate features originally recited in claim 14 (original claim 17). Certain of the dependent claims in this set have also been amended to correct their dependency due to the cancellation of claim 14 (original claim 17). Claim 12 and its dependent claims are therefore in condition for allowance.

New Claim 24

New claim 24 has been added by the present Response. Claim 24 is similar in subject matter to claim 12 in its original form, but adds that side surfaces of the claimed inductor have a collective area less than 1.6 times the desired area of the primary heat dissipation surface. The calculation of 1.6 times is made based upon the areas easily computed for a cylindrical inductor having a height less than 40% of the diameter of its base, as recited in claim 12. However, as disclosed in the present application, the inductor need not be cylindrical. For other non-cylindrical inductors, the ratio of the side surface area to the primary heat dissipation surface area is that recited in claim 24. Claim 24 therefore finds support in the disclosure as originally filed, and no new matter has been added.

Conclusion

In view of the remarks and amendments set forth above, Applicant respectfully requests allowance of the pending claims. If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Date: 4/26/2005

PSY
Patrick S. Yoder
Reg. No. 37,479
FLETCHER YODER
P.O. Box 692289
Houston, TX 77269-2289
(281) 970-4545

CORRESPONDENCE ADDRESS
ALLEN-BRADLEY COMPANY, LLC
Patent Department/704P Floor 8 T-29
1201 South Second Street
Milwaukee, Wisconsin 53204
Attention: Mr. Alexander Gerasimow
Phone: (414) 382-2000